

Samsung Pay

Samsung Pay is a mobile payment and digital wallet service by Samsung Electronics that lets users make payments using compatible phones and other Samsung-produced devices. The service supports contactless payments using near-field communications (NFC), but also supports magnetic stripe-only payment terminals by incorporating magnetic secure transmission.^[1] In countries like India it also supports bill payments.^[2]

The service was launched in South Korea on August 20, 2015 and in the United States on September 28 of the same year. In 2016, at the International Consumer Electronics Show (CES 2016), the telecommunications company announced that Samsung Pay would be coming soon to a variety of banks in Australia, Brazil, Spain and Singapore.^[3]

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Service

Samsung Pay



Screenshot of Samsung Pay

Developer(s)	<u>Samsung Electronics</u>
Initial release	August 20, 2015
Operating system	<u>Android</u>
Platform	Selected <u>Samsung Galaxy smartphones</u> & <u>Gear smartwatches</u>
License	<u>Proprietary</u>

Samsung Pay was developed from the intellectual property of LoopPay, a crowdfunded startup company that Samsung acquired in February 2015 for an estimated \$300m, one of the largest acquisitions made by the firm. The service supports both NFC-based mobile payment systems (which are prioritized when support is detected),^[4] as well as those that only support magnetic stripes. This is accomplished via a technology known as magnetic secure transmission (MST), which emulates the swipe of a permanent magnet strip past a reader by generating the near-field magnetic waveform directly. LoopPay's developers stated that because of this design, the technology would work with "nearly 90%" of all point-of-sale units in the United States (which excludes terminals that require the card to be physically inserted into a slot in order to function).^[1]

Website	samsung.com/global/galaxy/samsung-pay/ (http://samsung.com/global/galaxy/samsung-pay/)
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On phones, the Samsung Pay menu is launched by swiping from the bottom of the screen. Different credit, debit and loyalty cards can be loaded into the app, and selected by swiping between them on-screen.^[4]

In South Korea, Samsung Pay can be used for online payments^[5] and to withdraw money on selected banks' ATMs.^[6]

In Mainland China, Samsung Pay supports In-app payments, QR code payments (Alipay, and WeChat Pay) and public transportation cards of Beijing, Shanghai, Guangzhou, Shenzhen, and other cities.

In Hong Kong, Samsung Pay can be linked with Octopus cards, called Smart Octopus, to make electronic payments with stored value service for payments in online or offline systems.^[7]

In India, Samsung Pay supports the government's UPI / BharatQR.^[8] It also supports bill payments via the Bharat Bill Payment System.^[2]

In May 2020, Samsung Pay unveiled Samsung Money by SoFi, a mobile-first money management experience that makes available a cash management account and accompanying Mastercard debit card via the Samsung Pay app, in partnership with fintech company SoFi.^[9]

Security

Samsung Pay's security measures are based on Samsung Knox and ARM TrustZone technologies; credit card information is stored in a secure token.^[4] Payments must be authenticated using a fingerprint scan or passcode.^{[10][11]}

In August 2016, security researcher Salvador Mendoza disclosed a potential flaw with Samsung Pay, arguing that its security tokens were not sufficiently randomized and could become predictable. He also designed a handheld device that could be used to skim magnetic secure transmission tokens, and another which could spoof magnetic stripes on actual card readers using the token. Samsung responded to the report, stating that "If at any time there is a potential vulnerability, we will act promptly to investigate and resolve the issue".^[12]

Samsung Pay will not work with devices whose Knox warranty bit is tripped.

Availability



Global availability of Samsung Pay

Date (In chronological Order)	Support for payment cards issued in
August 20, 2015	 South Korea ^[13]
September 28, 2015	 United States ^{[13][14]}
March 29, 2016	 China ^{[15][16]}
June 2, 2016	 Spain ^[17]
June 15, 2016	 Australia ^[18]
June 16, 2016	 Singapore ^[19]
July 13, 2016	 Puerto Rico ^[20]
July 19, 2016	 Brazil ^[21]
September 28, 2016	 Russia ^[22]
November 8, 2016	 Canada ^{[3][23]}
February 8, 2017	 Thailand ^[24]
February 24, 2017	 Malaysia ^[25]
March 22, 2017	 India ^[26]
April 27, 2017	 Sweden ^[27]
	 United Arab Emirates ^[28]
May 16, 2017	 United Kingdom ^[29]
May 23, 2017	 Switzerland ^[30]
	 Taiwan ^[31]
May 25, 2017	 Hong Kong ^[32]
September 28, 2017	 Vietnam ^[33]
November 15, 2017	 Belarus ^[34]
January 30, 2018	 Mexico ^[35]
March 22, 2018	 Italy ^{[36][37]}
April 26, 2018	 France ^[38]
August 21, 2018	 South Africa ^{[39][40]}
March 23, 2019	 Indonesia ^[41]
January 21, 2020	 Kazakhstan ^[42]
September 20, 2020	 Kuwait ^[43]
October 28, 2020	 Germany ^[44]

In May 2016, it was reported that Samsung was developing a spin-off of the service known as Samsung Pay Mini. This service will be used for online payments only, and is also being targeted as a multi-platform service.^[45]

In January 2017, Samsung has confirmed that Samsung Pay Mini will not only work on its Galaxy devices but on other Android phones as well, as long as they are running Android Lollipop or above and have a screen resolution of 1280 × 720 pixels or higher.^{[46][47]}

In June 2017, Samsung launched Samsung Pay Mini and currently available on Galaxy J7 Max/On Max (in India)^[48]

Availability is limited not just on the basis of where the payment card is issued, but also on the basis of the phone's region (CSC) code. Thus a phone made for an unsupported region can never use Samsung Pay even if it physically resides in a supported region and has a local SIM card. The rather unrelated error "Connection error. Unable to connect to Samsung Pay temporarily. Try again later." is how Samsung Pay reports this problem.

In June 2020, Samsung announced a partnership between Samsung Pay, Curve and Mastercard for the launch of Samsung Pay Card in the UK and more EE countries where Curve has customers later in 2020.

Comparison with instant payment

In digital wallet-based payment systems like PayPal, Apple Pay, AliPay, WeChat Pay, etc. users receive immediate notification of the transaction, but funds are transferred at best in the next business day. The settlement time depends on the payment method chosen by the customer, while for instant payment systems, the funds are transferred within seconds or minutes.

Compatible devices

Flagship smartphones

Galaxy S

- Samsung Galaxy S6 (including S6 Edge, Active, and Edge+; S6, S6 Edge and S6 Active; MST technology limited to some markets, NFC technology available on all models)
- Samsung Galaxy S7 (including S7 Edge & Active)
- Samsung Galaxy S8 (including S8+ & Active)
- Samsung Galaxy S9 (including S9+)
- Samsung Galaxy S10 (including S10e, S10+, S10 5G and S10 Lite) (NFC only for S10 Lite)
- Samsung Galaxy S20 (including S20 5G, S20+, S20+ 5G, S20 Ultra 5G)
- Samsung Galaxy S20 FE (including S20 FE 5G) (NFC Only for S20 FE 5G)
- Samsung Galaxy S21 (including S21+ and S21 Ultra) (NFC Only for all S21 models)

Galaxy Note

- Samsung Galaxy Note 5
- Samsung Galaxy Note 7 (discontinued as of October 2016)
- Samsung Galaxy Note FE

- [Samsung Galaxy Note 8](#)
- [Samsung Galaxy Note 9](#)
- [Samsung Galaxy Note 10](#) (including Note 10+, Note 10 5G, Note 10+ 5G and Note 10 Lite) (NFC only for Note 10 Lite)
- [Samsung Galaxy Note 20](#) (including Note 20 5G, Note 20 Ultra, Note 20 Ultra 5G)

Galaxy Z

- [Samsung Galaxy Fold](#) (including Fold 5G)
- [Samsung Galaxy Z Flip](#) (including Z Flip 5G)
- [Samsung Galaxy Z Fold 2](#) (including Z Fold 2 5G)

Mid-range smartphones

Galaxy A

- [Samsung Galaxy A5 \(2016\)](#), [A7 \(2016\)](#), [A8 \(2016\)](#), [A9 \(2016\)](#) and [A9 Pro \(2016\)](#)
- [Samsung Galaxy A3 \(2017\)](#), [A5 \(2017\)](#) and [A7 \(2017\)](#)
- [Samsung Galaxy A6 / A6+](#) (only available to selected countries, NFC only)
- [Samsung Galaxy A8 \(2018\)](#) (including [A8+ \(2018\)](#) and [A8 Star \(2018\)](#), NFC only for A8 Star (2018))
- [Samsung Galaxy A7 \(2018\)](#) and [A9 \(2018\)](#) (NFC only)
- [Samsung Galaxy A40](#), [A50](#), [A70](#) and [A80](#) (only available to selected countries, NFC only)
- [Samsung Galaxy A30s](#), [A40s](#), [A50s](#) and [A70s](#) (NFC only)
- [Samsung Galaxy A90 5G](#) (only available to selected countries, NFC only)
- [Samsung Galaxy A21](#), [A31](#), [A51](#) & [A51 5G](#) and [A71](#) & [A71 5G](#) (NFC only)

Galaxy J

- [Samsung Galaxy J5 & J7 \(2016\)](#) (only available in selected countries)
- [Samsung Galaxy J5 \(2017\)/J5 Pro](#) (only available to selected countries)
- [Samsung Galaxy J7 \(2017\)/J7 Pro](#) (only available to selected countries)
- [Samsung Galaxy J7 Max \(2017\)](#) (only available to selected countries)

Galaxy C and others

Available to Samsung Pay users within [Hong Kong](#), [Macau](#) and [China](#).

- [Samsung Galaxy C5](#) and [C5 Pro](#)
- [Samsung Galaxy C7](#) and [C7 Pro](#)
- [Samsung Galaxy C9](#) and [C9 Pro](#)
- [Samsung Galaxy On5 \(2016\)](#) (also known as Galaxy J5 Prime in other countries)
- [Samsung Galaxy On7 \(2017\)](#) (also known as Galaxy J7 Prime in other countries)
- [Samsung W2017](#) (non-Galaxy smartphone)
- [Samsung W2018](#) (non-Galaxy smartphone)

Smartwatches

- [Samsung Gear S2 \(NFC only\)](#)^{[1][4]}
- [Samsung Gear S3 \(NFC and MST\)](#) (it doesn't in some countries such as Spain)
- [Samsung Gear Sport \(NFC only\)](#)
- [Samsung Galaxy Watch \(NFC only\)](#)
- [Samsung Galaxy Watch Active \(NFC only\)](#)
- [Samsung Galaxy Watch Active 2 \(NFC only\)](#)
- [Samsung Galaxy Watch 3 \(NFC only\)](#)

See also

- [WeChat Pay](#)
- [Apple Pay](#)
- [Google Pay](#)
- [Microsoft Pay](#)
- [LG Pay](#)
- [KakaoPay](#)
- [Naver Pay](#)

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